Developments of Roads and Drains at Attur, Ananthapura, 3rd Phase Sanitary Core Areas and Drilling of Borewells and Providing Pipe line at SC/ST Areas in Ward No:03 and 04 of Yelahanka Division (Package:09)"

Third and Part Bill

Quality Control Reports

BOOK NO-03

QC ABSTRACT

NAME OF WORK: "Developments of Roads and Drains at Attur, Ananthapura, 3rd Phase Sanitary Core Areas and Drilling of Borewells and Providing Pipe Line at SC/ST Areas in Ward No:03 and 04 of Yelahanka Division (Package no:09)."

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	KERB	Core Compressive strength	One Test		1	1
		Corrected Cylinder Compressive strength	One Test		1	1
		Equivalent Cube Compressive strength	One Test		1	1

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಜಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-10

7	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
8	Precast (250mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
9	RCC(M20)	Compressive Strength(7days and 28days)	10 set /350-400 cum	359.06	20	20
10	Cement Concrete Pavemet (M30)	Compressive Strength(7days and 28days)	9 set /300-350 cum	318.29	18	18
11	GSB	SIEVE ANALYSIS	One Test		1	1
12	WMM	Sieve Analysis	One Test		1	1
		Impact Value	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1

Ramesh
4/03. AE

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ
ಯಲಹಂಕ ಉಪವಿಭಾಗ ಬಿಬಿಎಂಪಿ
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-106

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2021-10-29-38** **Date: 20-09-21**
Project Name	:	"Developments of Roads and Drains at Attur, Ananthapura, 3rd Phase Sanitary Core Areas and Drilling of Borewells and Providing Pipe Line at SC/ST Areas in Ward No:03 and 04 of Yelahanka Division (Package no:09)."
Agency	:	Sri.K.Venkata Raju, No:23, RMV 2nd Stage, Nagashettyhalli, Near Akai Public School, Bangalore-560094.
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-05/W.O/186/2020-21
Date of Receipt	:	16-09-21
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	17-09-21
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.55	–
2	Finess by Air permeablity method (m^2/kg,Min)	287.5	225m^2/kg, Min
3	Density (gm/cc)	3.12	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2021-10-29-38** **Date: 16-10-21**
Project Name	:	"Developments of Roads and Drains at Attur, Ananthapura, 3rd Phase Sanitary Core Areas and Drilling of Borewells and Providing Pipe Line at SC/ST Areas in Ward No:03 and 04 of Yelahanka Division (Package no:09)."
Agency	:	Sri.K.Venkata Raju, No:23, RMV 2nd Stage, Nagashettyhalli, Near Akai Public School, Bangalore-560094.
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-05/W.O/186/2020-21
Date of Receipt	:	16-09-21
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	17-09-21
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.0N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.0N/mm^2	Not less than 53 N/mm^2

* The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig Date BANGALORE

FOR CIVIL Pro.

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Quality Manager

****End of Report****

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2021-10-29-38** **Date: 20-09-21**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.3	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.5	
3	Specific Gravity	2.68	–
4	Bulk Density(Loose) (Kg/l)	1.56	–
5	Bulk Density(Compacted) (Kg/l)	1.59	–
6	Water Absorption(%)	0.21	–

* The results obtained are satisfactory as per standard requirements.

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2021-10-29-38** **Date: 20-09-21**
Project Name	:	"Developments of Roads and Drains at Attur, Ananthapura, 3rd Phase Sanitary Core Areas and Drilling of Borewells and Providing Pipe Line at SC/ST Areas in Ward No:03 and 04 of Yelahanka Division (Package no:09)."
Agency	:	Sri.K.Venkata Raju, No:23, RMV 2nd Stage, Nagashettyhalli, Near Akai Public School, Bangalore-560094.
Customer Reference	:	BBMP/EE/YNK.D/EPMT-05/W.O/186/2020-21
Date of Receipt	:	16-09-21
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	16-09-21

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	255	255	5.1	94.9	90-100
3	10 mm	2789	3044	60.9	39.1	25-55
4	4.75 mm	1545	4589	91.8	8.2	0-10
5	Pan	411	5000	100	0	_

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Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2021-10-29-38** **Date: 20-09-21**
Project Name	:	"Developments of Roads and Drains at Attur, Ananthapura, 3rd Phase Sanitary Core Areas and Drilling of Borewells and Providing Pipe Line at SC/ST Areas in Ward No:03 and 04 of Yelahanka Division (Package no:09)."
Agency	:	Sri.K.Venkata Raju, No:23, RMV 2nd Stage, Nagashettyhalli, Near Akai Public School, Bangalore-560094.
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-05/W.O/186/2020-21
Date of Receipt	:	16-09-21
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	16-09-21
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---
Result :The tested Sample Conforms to Grading Zone II									

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CIVIL PRO Sig. Date BANGALORE

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Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

D	:	CP-2021-10-29-38 **Date: 04-10-21**
ct Name	:	"Developments of Roads and Drains at Attur, Ananthapura, 3rd Phase Sanitary Core Areas and Drilling of Borewells and Providing Pipe Line at SC/ST Areas in Ward No:03 and 04 of Yelahanka Division (Package no:09)."
cy	:	Sri.K.Venkata Raju, No:23, RMV 2nd Stage, Nagashettyhalli, Near Akai Public School, Bangalore-560094.
mer's Reference	:	BBMP/EE/YNK.D/EPMT-05/W.O/186/2020-21
of Receipt	:	29-09-21
le Type /Size	:	Precast Cover Slab (100mm)
nce to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
of test	:	29/09/2021

Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
	(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
Cover Slab-1	75.51	100.48	1.116	4477	80.9	18.1	16.8	21.0
Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

esults obtained are satisfactory as per standard requirements.

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ಯೋಜನೆಯ ಉಪವಿಭಾಗ
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Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE KERB STONE

) ID	:	CP-2021-10-29-38 **Date: 04-10-21**
ject Name	:	"Developments of Roads and Drains at Attur, Ananthapura, 3rd Phase Sanitary Core Areas and Drilling of Borewells and Providing Pipe Line at SC/ST Areas in Ward No:03 and 04 of Yelahanka Division (Package no:09)."
ency	:	Sri.K.Venkata Raju, No:23, RMV 2nd Stage, Nagashettyhalli, Near Akai Public School, Bangalore-560094.
tomer's Reference	:	BBMP/EE/YNK.D/EPMT-05/W.O/186/2020-21
e of Receipt	:	29-09-21
ple Type /Size	:	CC Kerb Stone/ 450*165*400mm
erence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
e of test	:	29/09/2021

	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	Kg	(Sq.mm)	(KN)	(N/mm2)	(N/mm2)	(N/mm2)
	A	100.01	165.51	2.864	7854	142.1	18.1	18.1	22.6
	B	100.03	165.49	2.793	7857	145.2	18.5	18.5	23.1
	C	100.01	165.50	2.815	7854	145.1	18.5	18.5	23.1

ie results obtained are satisfactory as per standard requirements.

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

ab ID	:	CP-2021-10-29-38 Date: 23/10/2021
roject Name	:	"Developments of Roads and Drains at Attur, Ananthapura, 3rd Phase Sanitary Core Areas and Drilling of Borewells and Providing Pipe Line at SC/ST Areas in Ward No:03 and 04 of Yelahanka Division (Package no:09)."
gency	:	Sri.K.Venkata Raju, No:23, RMV 2nd Stage, Nagashettyhalli, Near Akai Public School, Bangalore-560094.
ustomer's Reference	:	BBMP/EE/YNK.D/EPMT-05/W.O/186/2020-21
ate of Receipt	:	27-09-21
ust[illegible]er ID	:	Drain Bottom Slab Concrete, (Attur layout-4th main)
mple Type /Size	:	150X150X150 mm
mple grade/Age	:	M20 / 28 Days Compressive Strength
eference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
te of test	:	23/10/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	25/09/2021	23/10/2021	151.48 X 150.30 X 151.28	22767	8.786	537.9	23.6	23.3
2	Drain Bottom Slab Concrete	M20	25/09/2021	23/10/2021	151.54 X 152.00 X 150.02	23033	8.695	524.7	22.8	
3	Drain Bottom Slab Concrete	M20	25/09/2021	23/10/2021	151.44 X 151.69 X 149.87	22973	8.926	538.2	23.4	

The results obtained are satisfactory as per standard requirements.

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

ab ID : CP-2021-10-29-38 Date: 25/10/2021

roject Name : "Developments of Roads and Drains at Attur, Ananthapura, 3rd Phase Sanitary Core Areas and Drilling of Borewells and Providing Pipe Line at SC/ST Areas in Ward No:03 and 04 of Yelahanka Division (Package no:09)."

gency : Sri.K.Venkata Raju, No:23, RMV 2nd Stage, Nagashettyhalli, Near Akai Public School, Bangalore-560094.

astomer's Reference : BBMP/EE/YNK.D/EPMT-05/W.O/186/2020-21

ate of Receipt : 29-09-21

astomer ID : Drain Bottom Slab Concrete, (7th main)

mple Type /Size : 150X150X150 mm

mple grade/Age : M20 / 28 Days Compressive Strength

ference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

ate of test : 25/10/2021

L o.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	27/09/2021	25/10/2021	151.03 X 149.91 X 151.38	22642	8.786	533.2	23.6	22.9
2	Drain Bottom Slab Concrete	M20	27/09/2021	25/10/2021	151.08 X 150.71 X 150.88	22769	8.695	502.7	22.1	
3	Drain Bottom Slab Concrete	M20	27/09/2021	25/10/2021	151.36 X 151.93 X 151.32	22996	8.926	533.4	23.2	

he results obtained are satisfactory as per standard requirements.

FOR CIVIL Pro.

R KARTHIK RECHAN
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Quality Manager

****End of Report****

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2021-10-29-38 **Date: 26/10/2021**

ame : "Developments of Roads and Drains at Attur, Ananthapura, 3rd Phase Sanitary Core Areas and Drilling of Borewells and Providing Pipe Line at SC/ST Areas in Ward No:03 and 04 of Yelahanka Division (Package no:09)."

: Sri.K.Venkata Raju, No:23, RMV 2nd Stage, Nagashettyhalli, Near Akai Public School, Bangalore-560094.

r's Reference : BBMP/EE/YNK.D/EPMT-05/W.O/186/2020-21

leceipt : 30-09-21

r ID : Drain Side Wall Concrete, (8th main)

ype /Size : 150X150X150 mm

rade/Age : M20 / 28 Days Compressive Strength

e to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

est : 26/10/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Side Wall Concrete	M20	28/09/2021	26/10/2021	150.82 X 151.61 X 151.60	22865	8.786	539.4	23.6	23.2
Drain Side Wall Concrete	M20	28/09/2021	26/10/2021	151.65 X 151.90 X 149.67	23036	8.695	517.9	22.5	
Drain Side Wall Concrete	M20	28/09/2021	26/10/2021	149.52 X 150.94 X 150.65	22569	8.926	533.0	23.6	

ılts obtained are satisfactory as per standard requirements.

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Quality Manager

****End of Report****

A : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com
HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2021-10-29-38

Date: 28/10/2021

: "Developments of Roads and Drains at Attur, Ananthapura, 3rd Phase Sanitary Core Areas and Drilling of Borewells and Providing Pipe Line at SC/ST Areas in Ward No:03 and 04 of Yelahanka Division (Package no:09)."

: Sri.K.Venkata Raju, No:23, RMV 2nd Stage, Nagashettyhalli, Near Akai Public School, Bangalore-560094.

Reference : BBMP/EE/YNK.D/EPMT-05/W.O/186/2020-21

:ipt : 04-10-21

) : Drain Side Wall Concrete, (5th cross)

:/Size : 150X150X150 mm

e/Age : M20 / 28 Days Compressive Strength

BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 28/10/2021

tification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Side Wall ncrete	M20	30/09/2021	28/10/2021	151.23 X 151.90 X 151.39	22971	8.786	528.5	23.0	22.9
Side Wall ncrete	M20	30/09/2021	28/10/2021	150.82 X 151.63 X 149.81	22869	8.695	513.3	22.4	
Side Wall ncrete	M20	30/09/2021	28/10/2021	149.79 X 149.24 X 149.00	22354	8.926	518.8	23.2	

ined are satisfactory as per standard requirements.

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

CIVIL PRO
AN ISO 9001 : 2008 COMPANY & NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017
4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

	: CP-2021-10-29-38	Date: 08/10/2021
: Name	: "Developments of Roads and Drains at Attur, Ananthapura, 3rd Phase Sanitary Core Areas and Drilling of Borewells and Providing Pipe Line at SC/ST Areas in Ward No:03 and 04 of Yelahanka Division (Package no:09)."	
r	: Sri.K.Venkata Raju, No:23, RMV 2nd Stage, Nagashettyhalli, Near Akai Public School, Bangalore-560094.	
ner's Reference	: BBMP/EE/YNK.D/EPMT-05/W.O/186/2020-21	
f Receipt	: 04-10-21	
mer ID	: Drain Side Wall Concrete, (8th cross Road)	
le Type /Size	: 150X150X150 mm	
le grade/Age	: M20 / 7 Days Compressive Strength	
ence to BIS codes	: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5	
of test	: 08/10/2021	

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Side Wall Concrete	M20	01/10/2021	08/10/2021	149.64 X 150.70 X 150.52	22551	8.640	419.8	18.6	18.7
Drain Side Wall Concrete	M20	01/10/2021	08/10/2021	150.55 X 151.54 X 150.32	22814	8.766	431.8	18.9	
Drain Side Wall Concrete	M20	01/10/2021	08/10/2021	149.31 X 151.89 X 151.10	22679	8.314	419.1	18.5	

e results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಆಯುಕ್ತರು ಆಯುಕ್ತರ ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ. ಆ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

D	:	CP-2021-10-29-38 **Date: 08/10/2021**
ct Name	:	"Developments of Roads and Drains at Attur, Ananthapura, 3rd Phase Sanitary Core Areas and Drilling of Borewells and Providing Pipe Line at SC/ST Areas in Ward No:03 and 04 of Yelahanka Division (Package no:09)."
cy	:	Sri.K.Venkata Raju, No:23, RMV 2nd Stage, Nagashettyhalli, Near Akai Public School, Bangalore-560094.
mer's Reference	:	BBMP/EE/YNK.D/EPMT-05/W.O/186/2020-21
of Receipt	:	04-10-21
mer ID	:	Culvert Bottom Slab Concrete (5th Cross Road)
le Type /Size	:	150X150X150 mm
le grade/Age	:	M20 / 7 Days Compressive Strength
rence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
of test	:	08/10/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
Culvert Bottom Slab Concrete	M20	01/10/2021	08/10/2021	149.17 X 149.02 X 150.09	22230	8.640	420.6	18.9	18.5
Culvert Bottom Slab Concrete	M20	01/10/2021	08/10/2021	151.64 X 150.82 X 149.91	22872	8.766	420.2	18.4	
Culvert Bottom Slab Concrete	M20	01/10/2021	08/10/2021	149.84 X 150.52 X 151.85	22553	8.314	409.7	18.2	

he results obtained are satisfactory as per standard requirements.

FOR CIVIL Pro.
R KARTHIK RECHAN
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Quality Manager

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WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

TEST RESULTS OF GRADATION FOR GSB
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID : CP-2021-10-29-38 **Date: 29-09-21**

Project Name : "Developments of Roads and Drains at Attur, Ananthapura, 3rd Phase Sanitary Core Areas and Drilling of Borewells and Providing Pipe Line at SC/ST Areas in Ward No:03 and 04 of Yelahanka Division (Package no:09)."

Agency : Sri.K.Venkata Raju, No:23, RMV 2nd Stage, Nagashettyhalli, Near Akai Public School, Bangalore-560094.

Customer Reference : BBMP/EE/YNK.D/EPMT-05/W.O/186/2020-21

Date of Receipt : 27-09-21

Type of Mix : GSB (Granular Sub Base)

Date of test : 27-09-21

Oven Dry Weight : 10000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec. Limit Vide Table 400.1 MORTH Specification
75	0	0	0	100	100
53	997	997	9.97	90.03	80-100
26.5	1685	2682	26.82	73.18	55-90
9.5	1292	3974	39.74	60.26	35-65
4.75	1490	5464	54.64	45.36	25-55
2.36	1764	7228	72.28	27.72	20-40
0.425	1666	8894	88.94	11.06	10-25
0.075	1106	10000	100.00	0.00	0-5

TESTS ON FILLER SCREEN MATERIALS

Sl no	Particulars	Test results	Spec.Limit Vide Table 400.2 MORTH Specification
1	Liquid Limit, %	21.33%	Maximum 25
2	Plasticity index, %	Non plastic	Maximum 6

* The results obtained are satisfactory as per standard requirements.

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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End of Report

TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Date: 04-10-21

ID : CP-2021-10-29-38

ect Name : "Developments of Roads and Drains at Attur, Ananthapura, 3rd Phase Sanitary Core Areas and Drilling of Borewells and Providing Pipe Line at SC/ST Areas in Ward No:03 and 04 of Yelahanka Division (Package no:09)."

ncy : Sri.K.Venkata Raju, No:23, RMV 2nd Stage, Nagashettyhalli, Near Akai Public School, Bangalore-560094.

stomer Reference : BBMP/EE/YNK.D/EPMT-05/W.O/186/2020-21

te of Receipt : 01-10-21

pe of Mix : Coarse Aggregate for WMM (Wet Mix Macadam)

ıte of test : 01-10-21

SLNo	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	300.2	300.2
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	73.9	74.0
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	225.9	225.8
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.4	0.4
5	Aggregate impact value	(B/A)*100	24.6	24.7
6	Aggregate impact value (Mean of two tests)	Pecentage	24.6	

* The results obtained are satisfactory as per standard requirements.

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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End of Report

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 20/10/2021

: CP-2021-10-29-38

: "Developments of Roads and Drains at Attur, Ananthapura, 3rd Phase Sanitary Core Areas and Drilling of Borewells and Providing Pipe Line at SC/ST Areas in Ward No:03 and 04 of Yelahanka Division (Package no:09)."

: Sri.K.Venkata Raju, No:23, RMV 2nd Stage, Nagashettyhalli, Near Akai Public School, Bangalore-560094.

ference : BBMP/EE/YNK.D/EPMT-05/W.O/186/2020-21

t : 16-10-21

: Cement Concrete Pavement, (8th main Road)

/Size : 150X150X150 mm

/Age : M30 / 7 Days Compressive Strength

BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 20/10/2021

ntification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
ment Concrete Pavement	M30	13/10/2021	20/10/2021	151.54 X 150.89 X 151.07	22865	9.039	586.8	25.7	25.8
ement Concrete Pavement	M30	13/10/2021	20/10/2021	151.06 X 150.78 X 149.23	22775	8.158	613.3	26.9	
Cement Concrete Pavement	M30	13/10/2021	20/10/2021	150.24 X 151.61 X 149.52	22777	8.307	562.2	24.7	

ults obtained are satisfactory as per standard requirements.

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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 25/10/2021

: CP-2021-10-29-38

: "Developments of Roads and Drains at Attur, Ananthapura, 3rd Phase Sanitary Core Areas and Drilling of Borewells and Providing Pipe Line at SC/ST Areas in Ward No:03 and 04 of Yelahanka Division (Package no:09)."

: Sri.K.Venkata Raju, No:23, RMV 2nd Stage, Nagashettyhalli, Near Akai Public School, Bangalore-560094.

teference : BBMP/EE/YNK.D/EPMT-05/W.O/186/2020-21

ipt : 20-10-21

) : Cement Concrete Pavement, (1st main Road)

e /Size : 150X150X150 mm

de/Age : M30 / 7 Days Compressive Strength

o BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

t : 25/10/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
Cement Concrete Pavement	M30	18/10/2021	25/10/2021	150.01 X 151.97 X 149.33	22797	9.039	589.0	25.8	25.8
Cement Concrete Pavement	M30	18/10/2021	25/10/2021	149.21 X 150.08 X 150.84	22393	8.158	604.0	27.0	
Cement Concrete Pavement	M30	18/10/2021	25/10/2021	151.57 X 151.63 X 150.02	22983	8.307	568.2	24.7	

sults obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

FOR CIVIL Pro.

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Page 1/1
****End of Report****

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 25/10/2021

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rence : BBMP/EE/YNK.D/EPMT-05/W.O/186/2020-21

: 20-10-21

: Cement Concrete Pavement, (1st main Road)

ize : 150X150X150 mm

Age : M30 / 7 Days Compressive Strength

BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 25/10/2021

tification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
nent Concrete Pavement	M30	18/10/2021	25/10/2021	150.64 X 150.54 X 151.20	22678	9.039	586.8	25.9	25.9
ement Concrete Pavement	M30	18/10/2021	25/10/2021	151.80 X 151.46 X 149.35	22991	8.158	620.0	27.0	
Cement Concrete Pavement	M30	18/10/2021	25/10/2021	149.27 X 151.90 X 149.30	22675	8.307	566.7	25.0	

sults obtained are satisfactory as per standard requirements.

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